Utah Division of Air Quality
New Source Review Section

Date_____
Company_____
Site/Source_____

Form 14
Concrete Batch Plants

Process Information

1. Type of batching:

   G Wet (Rotary mixing trucks)
   G Dry (Flat bed trucks with segregated material compartments)
   G Central mix (Batching at plant site)
   G Other (specify) _____
   _____

2. Raw materials that will be handled:

   G coarse aggregate G washed
   G fine aggregate G washed
   G admixtures
   G other (specify) _____
   _____
   G portland cement
   G fly ash
   G lime

3. Maximum plant production rate and operating hours:

   _____ yd^3/yr
   _____ yd^3/hr
   _____ hrs/yr
   _____ hrs/day

4. Water sprays will be used at the following locations:

	Yes	No
G Stockpiles	G	G
G Aggregate bins	G	G
G Conveyor transfer points	G	G

5. Cement received by:

   G Rail Car
   G Truck
   G Other (specify)_____

6. Portland cement is transferred from delivery vehicle to cement storage silo by (give maximum capacity in lb/hr):

   G Pneumatic conveying system _____
   G Elevator
      G screw _____
      G bucket _____
   G Other (specify)

7. A baghouse is used on the cement silo vent:

   G Yes (submit Form 10)
   G No

8. Cement is transferred from cement storage silo to cement surge hopper by (maximum feed rate lb/hr):

   G Pneumatic transfer system _____
   G Gravity feed _____
   G Screw Conveyor _____
   ? Bucket elevator _____
   G Other (specify) _____

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9. Cement weigh hopper is loaded by: G Gravity feed G Pneumatic conveyor G Screw conveyor G Other (specify) _____	10. The cement weigh hopper will be vented to the: G Cement silo G Baghouse (submit Form 10) G Discharge spout G Other_____
11. Aggregate received by: G Rail car G Truck G Other (specify) _____	12. If aggregate storage bins are used, how is aggregate transferred to storage bin: G Covered conveyor belt Length: _____ G Uncovered conveyor belt Length: _____ G Other: _____
13. Fly ash received by: G Rail car G Truck G Other (specify) _____	14. Fly ash is transferred from deliver vehicle to storage (maximum capacity in lb/hr): G Pneumatic conveying system _____ G Elevator G screw _____ G bucket _____
15. Admixture ingredients:	16. Admixtures received by: G Rail car G Truck G Other (specify) _____
17. Admixtures are stored in:	18. Admixtures are transferred from delivery vehicle to storage (maximum capacity in lb/hr): G Pneumatic conveying system _____ G Elevator (screw) _____ (bucket) _____ G Other (specify) _____

19. The batch drop point to the truck or central mixer will be controlled to prevent dust emissions by:

G Shroud with exhaust air suction to baghouse (submit Form 10 also)
G Flexible discharge spout
G Other type of control device (explain in detail)

20. **Equipment**

Qty	Type	Specifications			
	Wet Batch Plants	Capacity _____ yd^3/hr	Manufacturer	Model	Serial Number

	Central Mix Batch Plant	Capacity _____ yd^3/hr	Manufacturer	Model	Serial Number

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Qty	Type	Specifications			
	front end loader	Usage _____ hr/day	horsepower _____		
	Hoppers	Controlled by:			
	aggregate conveying system	Covered: Length _____ ft	Uncovered: Length _____ ft		Other:
	cement conveying system	Pneumatic: _____ lb/hr	Screw _____ lb/hr Bucket _____ lb/hr	Other:	
	elevators	Screw _____ lb/hr	Bucket: _____ lb/hr	Other:	
	fly ash storage silos	Volume _____ ft^3	Controlled by:	Specifications:	
	cement storage silos	Volume _____ ft^3	Controlled by:	Specifications:	
	other storage silos	Material:	Volume _____ ft^3	Controlled by:	
	coarse aggregate storage piles	Size: _____ yd^3			
	fine aggregate storage piles	Size: _____ yd^3			
	other storage piles	Material:	Size: _____ yd^3		
	storage bins	Material:	Size: _____ ft^3		
	mixers	Volume: _____ yd^3			
	generators	Size:	Fuel:	Hrs/day:	Days/yr
Emissions Calculations (PTE)					

21. Calculated emissions for this device
PM_{10} _____Lbs/hr_____ Tons/yr
NO_x _____Lbs/hr_____ Tons/yr
SO_x _____Lbs/hr_____ Tons/yr
VOC _____Lbs/hr_____ Tons/yr
HAPs_____Lbs/hr (speciate)_____Tons/yr (speciate)

Submit calculations as an appendix.

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NOTE: 1. **Submit this form in conjunction with Form 1 and Form 2.**
2. To relocate a Concrete Batch Plants submit Form 15b.
3. Call the Division of Air Quality (DAQ) at **(801) 536-4000** if you have problems or questions in filling out this form. A to speak with a New Source Review engineer. We will be glad to help!

Instructions

1. Mark the appropriate box for the kind of batching done at the facility.
2. Mark the appropriate box for kind of materials to be used.
3. Indicate the plant production rate and operating hours.
4. Indicate where water sprays will be used for emission controls.
5. How is the cement received?
6. How is the cement transferred from delivery vehicle to the silo. Indicate the maximum rate at which it can be unloaded.
7. Indicate whether or not a baghouse is used. If yes, also submit Form 10 with this application.
8. How is the cement transferred from the solo to the hopper and at what rate?
9. How is the cement weigh hopper loaded?
10. To where is the cement weigh hopper vented?
11. How is the aggregate received?
12. How is the aggregate transferred to storage bins?
13. How is fly ash received?
14. How is fly ash transferred to storage?
15. What admixture ingredients are used?
16. How are the admixture ingredients received?
17. How are the admixture ingredients stored?
18. How are admixtures transferred?
19. What is the control on the batch drop point to the truck or central mixer? If a baghouse is used, also submit Form 10.
20. Indicate the number and type of equipment that will be used in the facility. Give specifications on the individual pieces of equipm Attach additional sheets of paper, if necessary.
21. Supply calculations for all criteria pollutants and HAPs. Use AP42 or Manufacturers data to complete your calculations.

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